Publication No. 75-e13

WA-35-1010

State of **Washington**

Department of Ecology

MEMORANDUM

February 18, 1975

TO:

BILL BURWELL, Spokane Regional Office

FROM:

HANS CREGG

SUBJECT:

Clarkston STP

On October 23, 1974, an efficiency study was conducted at the Clarkston wastewater treatment plant.

The plant appeared to be in good order and it was evident that good housekeeping practices were being followed.

Laboratory results indicate that BOD and COD reductions are good, 87 and 89%, respectively. The plant, however, fulls down -on total salids reduction a mero 34%

Coliform counts are less than 20 for total and less than 10 for fecal colonies.

BODY 1.55. With M Standards
Networds Exturing High-

HC:bj

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

DATA SUMMARY

ORIGINAL TO:	
. G.J. JEANE	Æ.
COPIES TO:	

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Source CLARKSTON STP		wa				Co	llected By	G.S.J. II	
Date Collected 10-23-24		-				Go	al, Pro./O	bj.	
Log Number: 74	- 4228	29	30	31	3 s	33	34		STORET
Station:	INF	eff	1130	1330	1430	1530	1630		
рН	7.3	6.9							00403
Turbidity (JTU)	99.	10.							00070
Conductivity (umhos/cm)@250	860.	660.							00095
COD	415.	46			wagon ing and history				00340
BOD (5 day)	236.	31.							00310
Total Coliform (Col./100ml)		and the second of the second o	420	EST 20	857 20	420	(50		31504
Fecal Coliform (Col./100ml)		· •	410	410	510	(10	(10		31616
NO3-N (Filtered)	-	25.0							00620
NO2-N (Filtered)		ND							00615
NH3-N (Unfiltered)		**************************************							00610
T. Kjeldahl-N (Unfiltered)									00625
0-P04-P (Filtered)		15.)							00671
Total PhosP (Unfiltered)		17.5	garden and the						00665
Total Solids	709	468							00500
Total Non Vol. Solids	390	158	in-production.		:				
Total Suspended Solids	241	18							00530
Total Sus. Non Vol. Solids	_5 ⁻ L_	3							

Note: All results are in P	DM 3	200 25	202225		: <i>E</i> : = 1		15.		
Note: All results are in P Convert those marked	with	a * to	PPB (s speci PPM X	гцеа. 10 ³) р	ND 15 rior t	s "None Det o entry int	ected" to STORET	

Summary By Stephen D. Rell Date 11-12-24

STP Survey Report Form

Efficiency Study

City Clarkston	Plant Type Secon	dary Po	p. Served_	6,800	Design 1	3000
Receiving Water	Snake River	Perenn	ial	Intermitte	Capacity nt	
Date <u>5/22/74</u> Sur	vey Period <u>8 h</u>	ours	_ Survey P	ersonnel_	H. J. Creg	g
Comp. Sampling Free						
Weather Conditions						
pass of raw sewage	? Yes X	_No/Frequ	ency of b	ypass once	while unde	r
Reason for bypass_						And the Contract of the Contra
Was DOE Notified?						
		Operation		AND THE STATE OF T		and formation we we give a first factor of the latter of t
Total flow 550	0,000	How mea	- sured	Totalizer		
Maximum flow						NOTATION AND PROPERTY OF THE COLOR COMMENTS
Minimum flow						
Pre Cl ₂						
2			_	Million and the second translations and plants in the second second second second second second second second		
	<u>Field</u>	Results				
	Influ	ent		Ei	fluent	
Determinations	Max. Min.	Mean	Median	Max. Mir	n. Mean	Median
Temp °C pH (Units)	8.2 7.4		7.4	7.4 6.4	pones d	6.4
Conductivity (µmhos/cm ²)	1200 800		900	800 650	The state of the s	700
Settleable Solids (mls/1)	20 12	15	13	NEG NEG	NEG NEG	NEG
borras (mrs/r)		a 3 da es es es es es			- transmissioners	SECONOSTINICADAS SINTENDA CONTRACTOR CONTRAC
	Laboratory Resi					
I ahamaka M	Influent 74 4228	Efflu 74 42		% Reduc	tion	
Laboratory No.						
5-Day BOD ppm COD ppm	236 Grant to distribution of the state of th	31 46		87		
T.S. ppm T.N.V.S. ppm	709 390	468 321		34	NAME AND ADDRESS OF THE PARTY O	
T.S.S. ppm N.V.S.S. ppm	51	18		94		
pH (Units) Conductivity	distribution of the contract o	6.9		(Chances and the contract of t	• неселение поставление в пос	
(µmhos/cm²) Turbidity(JTU's)	<u>860</u> 99	660	ACTUAL CONTRACTOR AND ACTUAL CONTRACTOR CONT			
	O/ADMINISTRATION OF PROPERTY AND ADMINISTRATION OF THE PROPERTY OF THE PROPERT	LU	nano-reministrativ			

Laboratory Bacteriological Results

	Lab No.	Sampling	•	lonies/100 m	, ,	Cl ₂ Resid	dual
		Time	Total Coliform	Fecal Coliform	Fecal Strep	16	3/11/1/-
	74-4230	1130	< 20	< 10		1 .5	1.0
	74-4231	1330	Est 20	< 10		. 5	1.0
L	74-4232	1430	Est 20	< 10		.5	1.0
	74-4233	1530	< 20	< 10		.5	1.0
L	74.4234	1630	< 20	< 10	The second secon	.5	1.0
L							

Additional Laboratory Results

NO3-N ppm -	
NO2-N ppm -	/25.0
NH3-N ppm -	NO NO
T. Kjeldahl-N ppm -	
O-PO4-P ppm -	15.1
T-P04-P ppm -	17.5

Operator's Name Russ Millard Phone No. (509) 758-5541

Furnish a flow diagram with sequence and relative size and points of chlorination.

Type of Collection System

CombinedSeparateBoth	Estimate flow contributed by surface or ground water (infiltration
	MGD
Plant Loading Info	rmation
Annual average daily flow rate(mgd)	Peak flow rate(mgd)
Dry	Dry
Wet	Wet
COMMENTS:	